

DIVISION OF OIL, GAS, AND MINING

BOND ESTIMATE

OPERATOR: Atlas Minerals
 MINE NAME: Cane Creek
 LOCATION: Cane Creek
 COUNTY: Grand
 DATE: December 21, 1982

ACT 1019/007

Operation	Amount	Rate	Cost
CLEAN-UP			
1. Removal of structures & equipment.	N/A	N/A	N/A
2. Removal of trash & debris.	6.1 acres	\$100/acre	\$610
3. Leveling of ancillary facilities pads and access roads.	3.1 acres	\$1,000/acre	\$3,100
REGRADING & RECONTOURING			
1. Earthwork including haulage and grading of spoils, waste and overburden.	3 acres	\$1,000/acre	\$3,000
2. Recontouring of highwalls and excavations.	N/A	N/A	N/A
3. Spreading of soil or surficial materials.	N/A	N/A	N/A
STABILIZATION			
1. Soil preparation, scarification, fertilization, etc.	-----	Included in regrading	-----
2. Seeding or planting.	6.1 acres	\$125/acre	\$ 760
3. Construction of terraces, waterbars, etc.	-----	Included in regrading	-----
LABOR			
1. Supervision.			
2. Labor exclusive of bulldozer time,	200 hrs	\$15/hr	\$3,000
SAFETY <i>5 portal</i>			
1. Erection of fences, portal coverings, etc.	<i>5 portal</i> N/A	<i>3000 each</i> N/A	<i>15000</i> 3000 N/A
2. Removal or neutralization of explosive or hazardous materials.	N/A	N/A	N/A
MONITORING			
1. Continuing or periodic monitoring, sampling & testing deemed necessary.	<i>120</i> 80 hrs	\$15/hr	<i>1800</i> \$1,200
OTHER			
1. Contingency costs	<i>28470</i> 8470 \$11,670	10%	1847 <i>2847</i> \$1,167
Total <i>20317</i> <i>31317</i>	N/A	N/A	\$12,837

ATTACHMENT A

CANE CREEK MINE

LOCATION

Atlas Minerals is currently operating at the Cane Creek Mine; Section 32, Range 21 East and Township 26 South in Kane Springs Canyon of San Juan and Grand Counties. Mining activity occurs on state lease #SL 8066.

At an elevation of about 5700 feet, native vegetative cover incidental to surface disturbance is approximately zero to five percent. This vegetation is dominated by Indian Rice Grass and miscellaneous forbes.

MINING PLAN

Uranium ore in the Mossback member of the Chinle formation is being mined in a safe, orderly and minerlike fashion using a random room and pillar technique.

The Cane Creek Mine operated prior to May 1975 consists of an access road, waste rock stockpiles, ore pads and 5 portal entries.

A total of five (5) acres has been disturbed prior to May 1975 by the Cane Creek Mining operation. An access road from the county road occupies one (1) acre. Two and eight tenths (2.8) acres consists of operational area (ore pads and roadbed) and the remaining one and two tenths (1.2) acres are utilized as waste rock stockpiles. All future surface disturbances will be contained on the above existing acreage.

The Cane Creek Mine is projected to be in operation for five (5) more years. At all times, mining activity will continue to be conducted in such a manner as to minimize visual and environmental degradation to the area. Surface disturbances will be stabilized and rehabilitated at the earliest opportunity.

REHABILITATION PLAN

Upon final abandonment of the Cane Springs mining operation, extraneous debris, scrap metal and discarded wood will be removed from the surface. The five portals will be sealed to prevent accidental or unauthorized entry.

The outer edges of waste rock stockpiles and roads will be rounded off and regraded to stabilize slopes. A total of 2.8 acres of ore pads and road bed will be scarified and seeded using the specified seed mixtures. (MR Form 2 page 3)

Seed will be broadcast and dragcovered over the specified area. This material has a pH of 8.2 to 8.6. At this time, there are no plans for special seed bed preparation,; however, soil amendments and surface manipulation will be employed if these techniques prove effective in revegetation tests.